

**A. AMENDMENTS TO CLAIMS**

Please amend the claims as indicated hereinafter.

1 1. (CURRENTLY AMENDED) A method for transforming character strings that are  
2 contained in ~~a computer program~~, computer program source code the method  
3 comprising the computer-implemented steps of:  
4 automatically parsing ~~a computer program~~ the computer program source code to  
5 identify a hard coded string that is contained in the computer ~~program~~;  
6 program source code;  
7 replacing the hard coded string contained in the computer program source code with a  
8 macro that is uniquely associated with the hard coded string;  
9 creating and storing in a mapping of macros to strings, an entry that defines an  
10 association between the macro and the hard coded string; and  
11 generating and storing in the computer program source code a reference to the  
12 mapping of macros to strings. referencing the mapping in a program element  
13 that is associated with the computer program.

1 2. (CURRENTLY AMENDED) The method as recited in Claim 1, wherein the step of  
2 automatically parsing ~~a computer program~~ the computer program source code to  
3 identify a hard coded string includes:  
4 identifying one or more computer ~~programs~~ program source code files that contain  
5 one or more hard coded strings; and  
6 automatically parsing at least one of the one or more computer ~~programs~~ program  
7 source code files to identify the one or more hard coded strings while copying  
8 instructions from at least one of the one or more computer ~~programs~~ program  
9 source code files to an output.

1 3. (CURRENTLY AMENDED) The method as recited in Claim 1, wherein the step of  
2 automatically parsing ~~a computer program~~ the computer program source code to  
3 identify a hard coded string that is contained in the computer program source code  
4 includes automatically parsing ~~a computer program~~ the computer program source  
5 code to identify a hard coded string that is both contained in the computer program  
6 source code and does not already have a corresponding macro uniquely associated  
7 with the hard coded string.

1 4. (CURRENTLY AMENDED) The method as recited in claim 1, further comprising  
2 the computer-implemented steps of:  
3 receiving a suggested macro for the identified hard coded string, and  
4 generating the macro to replace the hard coded string contained in the computer  
5 program source code based upon the suggested macro.

1 5. (CURRENTLY AMENDED) The method as recited in claim 1, further comprising  
2 the computer-implemented step of compiling the computer program source code to  
3 generate an executable, including substituting in the executable the hard coded string  
4 for each instance of the macro in the computer ~~program~~ program source code.

1 6. (CURRENTLY AMENDED) The method as recited in Claim 1, further comprising  
2 the computer-implemented steps of:  
3 parsing the computer program source code to locate a second hard coded string  
4 contained therein, wherein the second hard coded string is different than the  
5 hard coded string;

6 in response to locating the second hard coded string contained in the computer  
7 ~~program~~, program source code, determining whether a macro was previously  
8 generated for the second hard coded string by searching the mapping; and  
9 generating a second macro uniquely associated with the second hard coded string  
10 only when a macro was not previously generated for the second hard coded  
11 string.

1 7. (CURRENTLY AMENDED) A method for transforming hard coded character  
2 strings that are contained in ~~a computer program~~, computer program source code the  
3 method comprising the computer-implemented steps of:  
4 identifying a hard coded string that is contained in the computer ~~program~~; program  
5 source code;  
6 replacing the hard coded string contained in the computer program source code with a  
7 macro that is uniquely associated with the hard coded string;  
8 creating and storing in a macro file a macro definition that defines an association  
9 between the macro and the hard coded string; and  
10 referencing the macro definition in the computer program source code using a  
11 compiler directive that causes a compiler to include the macro file during  
12 compilation of the computer ~~program~~; program source code.

1 8. (CURRENTLY AMENDED) A computer-readable medium carrying one or more  
2 sequences of instructions for transforming character strings that are contained in a  
3 ~~unit of code~~, computer program source code, wherein execution of the one or more  
4 sequences of instructions by one or more processors causes the one or more  
5 processors to perform:

6 automatically parsing ~~a computer program~~ the computer program source code to  
7 identify a hard coded string that is contained in the computer ~~program~~;  
8 program source code;  
9 replacing the hard coded string contained in the computer program source code with a  
10 macro that is uniquely associated with the hard coded string;  
11 creating and storing in a mapping of macros to strings, an entry that defines an  
12 association between the macro and the hard coded string; and  
13 generating and storing in the computer program source code a reference to the  
14 mapping of macros to strings. ~~referencing the mapping in a program element~~  
15 ~~that is associated with the computer program.~~

B 9. (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 8,  
2 wherein the step of  
3 automatically parsing ~~a computer program~~ the computer program source code to  
4 identify a hard coded string includes:  
5 identifying one or more computer ~~programs~~ program source code files that contain  
6 one or more hard coded strings; and  
7 automatically parsing at least one of the one or more computer ~~programs~~ program  
8 source code files to identify the one or more hard coded strings while copying  
9 instructions from at least one of the one or more computer ~~programs~~ program  
10 source code files to an output.

10. (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 8,  
2 wherein the step of automatically parsing ~~a computer program~~ the computer program  
3 source code to identify a hard coded string that is contained in the computer program  
4 source code includes automatically parsing ~~a computer program~~ the computer  
5 program source code to identify a hard coded string that is both contained in the

6 computer program source code and does not already have a corresponding macro  
7 uniquely associated with the hard coded string.

1 11. (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 8,  
2 further comprising the computer-implemented steps of:  
3 receiving a suggested macro for the identified hard coded string, and  
4 generating the macro to replace the hard coded string contained in the computer  
5 program source code based upon the suggested macro.

1 12. (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 8,  
2 further comprising the computer-implemented step of compiling the computer  
3 program source code to generate an executable, including substituting in the  
4 executable the hard coded string for each instance of the macro in the computer  
5 ~~program~~ program source code.

1 13. (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 8,  
2 further comprising the computer-implemented steps of:  
3 parsing the computer program source code to locate a second hard coded string  
4 contained therein, wherein the second hard coded string is different than the  
5 hard coded string;  
6 in response to locating a the second hard coded string contained in the computer  
7 ~~program~~ program source code, determining whether a macro was previously  
8 generated for the second hard coded string by searching the mapping; and

9 generating a second macro uniquely associated with the second hard coded string  
10 only when a macro was not previously generated for the second hard coded  
11 string.

1 14. (CURRENTLY AMENDED) A computer system for transforming character strings  
2 that are contained in ~~a memory~~; computer program source code stored in a memory,  
3 the computer system comprising:  
4 one or more processors coupled to the memory;  
5 a conversion mechanism;  
6 a stored mapping that defines one or more associations between macros and strings;  
7 one or more ~~sequences~~ computer instructions contained in the memory and associated  
8 with the conversion mechanism which, when executed by the one or more  
9 processors, cause the one or more processors to perform the steps of:  
10 automatically parsing ~~a computer program~~ the computer program source code  
11 to identify a hard coded string that is contained in the computer  
12 ~~program~~; program source code;  
13 replacing the hard coded string contained in the computer program source  
14 code with a macro that is uniquely associated with the hard coded  
15 string;  
16 creating and storing in the mapping that defines one or more associations  
17 between macros and strings, ~~of macros to string~~, an entry that defines  
18 an association between the macro and the hard coded string; and  
19 generating and storing in the computer program source code a reference to the  
20 mapping that defines one or more associations between macros and  
21 strings, ~~referencing the mapping in a program element that is~~  
22 ~~associated with the computer program~~.

1 15. (CURRENTLY AMENDED) The computer system as recited in Claim 14, wherein  
2 the step of automatically parsing ~~a computer program~~ the computer program source  
3 code to identify a hard coded string includes:  
4 identifying one or more computer ~~programs~~ program source code files that contain  
5 one or more hard coded strings; and  
6 automatically parsing at least one of the one or more computer ~~programs~~ program  
7 source code files to identify the one or more hard coded strings while copying  
8 instructions from at least one of the one or more computer ~~programs~~ program  
9 source code files to an output.

B 1 16. (CURRENTLY AMENDED) The computer system as recited in Claim 14, wherein  
2 the step of automatically parsing ~~a computer program~~ the computer program source  
3 code to identify a hard coded string that is contained in the computer program source  
4 code includes automatically parsing ~~a computer program~~ the computer program  
5 source code to identify a hard coded string that is both contained in the computer  
6 program source code and does not already have a corresponding macro uniquely  
7 associated with the hard coded string.

1 17. (CURRENTLY AMENDED) The computer system as recited in Claim 14, further  
2 comprising the computer-implemented steps of:  
3 receiving a suggested macro for the identified hard coded string, and  
4 generating the macro to replace the hard coded string contained in the computer  
5 program source code based upon the suggested macro.

1 18. (CURRENTLY AMENDED) The computer system as recited in Claim 14, further  
2 comprising the computer-implemented step of compiling the computer program

3 source code to generate an executable, including substituting in the executable the  
4 hard coded string for each instance of the macro in the computer ~~program~~; program  
5 source code.

1 19. (CURRENTLY AMENDED) The computer system as recited in Claim 14, further  
2 comprising the computer-implemented steps of:

3 parsing the computer program source code to locate a second hard coded string  
4 contained therein, wherein the second hard coded string is different than the  
5 hard coded string;

6 in response to locating a the second hard coded string contained in the computer  
7 ~~program~~; program source code, determining whether a macro was previously  
8 generated for the second hard coded string by searching the mapping; and  
9 generating a second macro uniquely associated with the second hard coded string  
10 only when a macro was not previously generated for the second hard coded  
11 string.

1 20. (CURRENTLY AMENDED) A computer-readable medium carrying one or more  
2 sequences of instructions for transforming hard coded character strings that are  
3 contained in a ~~computer program~~; computer program source code, wherein execution  
4 of the one or more sequences of instructions by one or more processors causes the  
5 one or more processors to perform the steps of:  
6 identifying a hard coded string that is contained in the computer ~~program~~; program  
7 source code;  
8 replacing the hard coded string in the computer program source code with a macro  
9 that is uniquely associated with the hard coded string;



10 creating and storing in a macro file a macro definition that defines an association of  
11 between the macro and the hard coded string; and  
12 referencing the macro definition in the computer program using a compiler directive  
13 that causes a compiler to include the macro file during compilation of the  
14 computer ~~program~~. program source code.

1 21. (CURRENTLY AMENDED) An apparatus for transforming hard coded character  
2 strings that are contained in a ~~computer program~~, computer program source code, the  
3 apparatus comprising a memory carrying one or more sequences of instructions  
4 which, when executed by one or more processors causes the one or more processors  
5 to perform the steps of:  
6 identifying a hard coded string that is contained in the computer ~~program~~; program  
7 source code;  
8 replacing the hard coded string contained in the computer program source code with a  
9 macro that is uniquely associated with the hard coded string;  
10 creating and storing in a macro file a macro definition that defines an association  
11 between the macro and the hard coded string; and  
12 referencing the macro definition in the computer program source code using a  
13 compiler directive that causes a compiler to include the macro file during  
14 compilation of the computer ~~program~~. program source code.

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